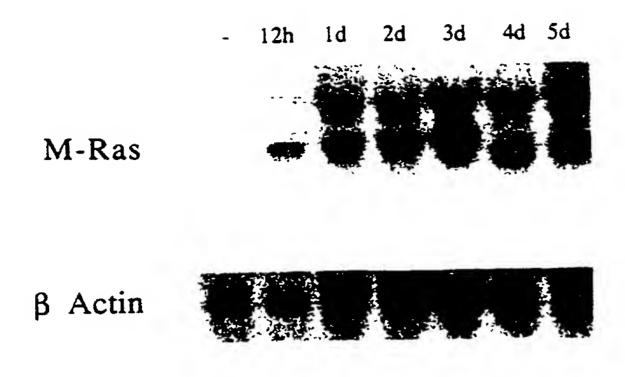
	GGC	CTGA	CTAC	CAGA	AAC	ATG M	GCG A	ACC T	AGC S	GCT A	GTT V	CCA P	AGT S	GAA E	AAC N	CTT	CCC P	ACA T	TAT Y	60 14
AAA K	CTA L	GTA V	GTG V	GTG V	GGA G	GAT D	GGT G	GGT G	GTG V	GGC G	AAG K	agt S	GCG A	CTC L	ACT T	ATT I	CAG Q	TTT F	TTC F	120 34
	AAG. K		TTT F	GTG V	CCT P	GAC D	TAC Y	GAC D	CCC	ACC T	ATT		GAC D	TCC S	TAC Y	CTG L	AAG K	CAT H	ACA T	180 54
GAG E	ATT	GAC D	AAT N	CAG Q	TGG W	GCC A	ATC I		GAT D	GTT V	CTG L	GAC D	ACA T	GCC A	GGG G	CAG Q	GAG E	GAG E	TTC F	240 74
	GCC A		CGG R	GAA E	CAA Q	TAC Y	ATG M		ACA T	GGG G	GAT D		TTC F	CTC	ATT	GTC V	TAC Y	TCC S	GTC V	300 94
		AAG K		AGC S		GAG E	CAC H	GTG V	GAC D		TTC F	CAC H	CAG Q	CTC L	ATT	CTG L	CGT R	GTC V	AAG K	360 114
GAC D	AGG R	GAG E	TCA S	TTC F	CCA P	atg M	ATC I		GTG V		AAC N	AAG K	GTG V	GAT D	CTG L	ATG M	CAC H	CTA L	AGG R	420 134
AAA K	GTC V	ACC T	AGG R	GAC D	CAA Q	GGA G	aaa K	GAA E	ATG M	GCA A	ACC	AAA K	TAC Y	AAT N	ATC I	CCA P	TAT Y	ATA I	GAG E	480 154
ACC T	AGT S	GCC A	AAG K	GAC D	CCG P	CCT	CTC L	AAC N	GTG V	GAT D	AAA K	ACC T	TTC F	CAT H	. GAC	CTA L	GTT V	AGA R	GTA V	540 174
ATT I	AGG R	CAA Q	CAG Q	GTT V	CCA P	GAG E	AAA K	AAC N	CAG Q	AAG K	AAG K	AAA K	AAG K	AAG K	ACA T	AAA K	TGG W	CGA R	GGA G	600 194
GAC D	AGG R	GCC A	ACC T	GGC G	ACT T	CAC H	AAA K	CTG L	CAG Q	TGT C	GTC V	ATC	TTG L	TGA	CAG	CCT	GAA	GCC	CTG	660 208
CTT	GGCT AGGA TTAA	CTTG GACA CTCA CCAT	GACT GGGC TAGG	GGGC TACA CTGG AGTG	ATTO GCTI TTTO TCTO	GAAG CCAA CTAI AGCI	GGAA ACCT GGAA	TGAG TTTG GTGC	GGAG TGTG TTAC	GAGG TTGA CCAC	GGGC CTGA ATAC	AGAA GCCC AACG TTAA	GCAG AGTI CACC ATTA	GCCG CCCA AGAC	GGGC GTC1 AAGC AGTA	TGGC CTTC CATC ATG	TTTG GTGG AGCA	CTGC GCTT AGCT	AGCC CTGT GTTT TCCT TTAA	739 818 897 976 1055

Figure 1

p21 Ras	MTEYKLVVVGAGGVGKSALTIQLI	24
M-Ras		34
R-Ras		50
p21 Ras	QNHFVDEYDPTIEDSYRKQVVIDGETCLLDYLDTAGQEEYSAMRDQYMRT	74
M-Ras	QKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAGQEEFSAMREQYMRT	84
R-Ras	QSYFVSDYDPTIEDSYTKICTVDGIPARLDILDTAGQEEFGAMREQYMRA	150
p21 Ras	GEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDLAA-R	123
M-Ras	GDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLR	134
R-Ras	GNGFLLVFAINDROSFNEVGKLFTQILRVKDRDDFPIVLVGNKADLENQR	150
-11 Dog	·	172
p21 Ras	TVESRQAQDLARSYGIPYIETSAK-TRQGVEDAFYTLVREIRQHKLRKLN	112
M-Ras	KVTRDQGKEMATKYNIPYIETSAKDPPLNVDKTFHDLVRVIRQQVPEKNQ	184
R-Ras	QVLRSEASSFSASHHMTYFEASAK-LRLNVDEAFEQLVRAVRKYQEQELP	199
p21 Ras	PPDESGPGCMSCKCVLS	189
<u>r</u>		
M-Ras	KKKKTKWRGDRATGTHKLQCVIL	208
R-Ras	PSPPSAPRKKDGGCPCVLL	218

Figure 2



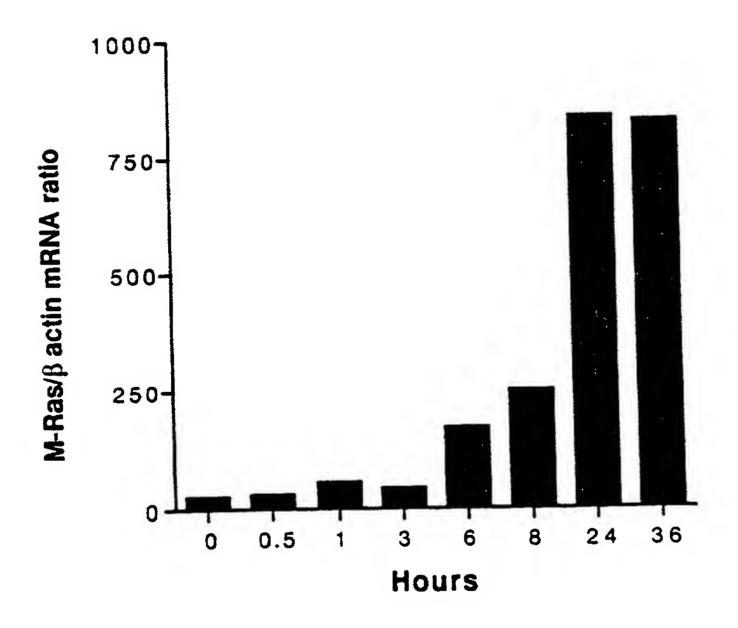


Figure 3

FVB

Liver Idney Brain testine Cherny Tund Bone Waltow

Tg5

Live Kidney Brain restine spenning bone warrow

Figure 4

								CGC	CCCC	GAC	CIG	CTCC	TCAC	CGGC	GCAG	GCTA	AGGAC	GGGG	SCGG	46
CCTG	AGTO	ccG	AGC	CGAGO	cccc	GCT	GAGO	CCCC	GGT	TGAC	CTAC	GAGA	AAC	ATG	GCA	ACC	AGC	GCC	GTC	120
										-				M	A	T	S	A	V	6
222	AGT	GAC	AAC	CIC	ccc	ACA	TAC	AAG	CTG	GTG	GTG	GTG	GGG	GAT	GGG	GGT	GTG	GGC	AAA	180
P	S	D	N	L	P	T	Y	K	L	A	Λ	A	G	D	G	G	V	G	K	26
														GAC	TAT	GAC	ccc	ACC	ATT	240
S	A	L	T	I	Q	F	F	Q	K	I	F	V	P	D	Y	D	P	T	I	46
		TCC																		300
E	D	S	Y	L	K	H	T	Ε	I	D	N	Q	₩	A	I	L	D	٧	L	66
		GCT															_	_		360
Ð	T	A	G	Q	E	E	F	S	A	M	R	E	Q	Y	M	R	T	G	D	86
																			TTC	420
G	F	L	I	V	Y	S	V	T	D	K	A	S	F	E	Ħ	V	D	R	F	106
		CIT																		480
Ħ	Q	L	ī	7	R	V	K	D	R	E	S	F	P	M	I	Ţ	V	A	N	126
																			ACC	
K	V	D	L	M	H	L	R	K	I	T	R	E	Q	G	K	E	M	A	T	146
																			AAA	600
K	H	N	I	P	Y	I	E	T	S	A	K	D	P	P	L	N	V	D	K	166
_		CAT							AGG	CAA	CAG	ATT	CCG	GAA	AAA	AGC	CAG	AAG	AAG	660
A	F	H	D	L	V	R	V	I	R	Q	Q	I	P	E	K	S	Q	K	ĸ	186
AAG	AAG	AAA	ACC	AAA	TGG	CGG	GGA	GAC	CGG	GCC	ACA	GGC	ACC	CAC	AAA	CIG	CAA	TGT	GTG	720
K	K	K	T	K	₩	R	G	D	R	A	T	G	T	H	K	L	Q	С	V	206
_			GGC	CTGC	AGGC	CTGA	AGGC	CTCG	GGCA	CAGT	GACG	GTGG	CCIG	GCCA	GCCC	TCGG	GACC	CCTC	CCCA	791
I	L	*																		208
																			GGGC	870
																			GGCC	949
		aaag TTTT			- ·									TGGA	TITC	AAAC	USGG	TIT	CITC	1028 1081
<u> </u>		****	COCO	7100	GTGT	TOTI	COLL	WY 7 7	COLL	CALANT.		WIGO	7.7							TOOT

Figure 5

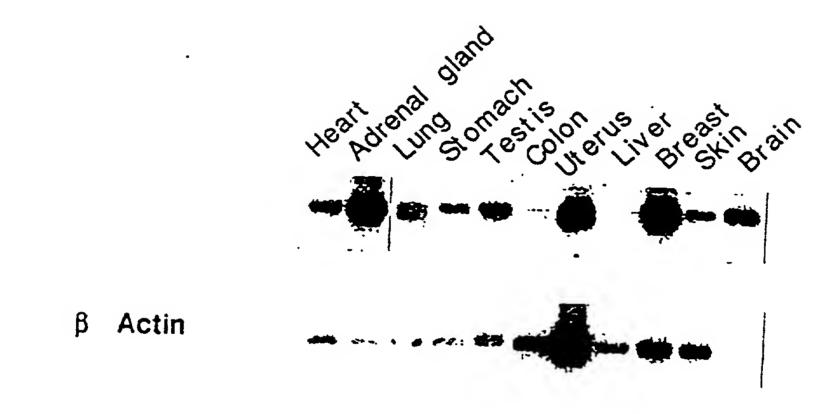


Figure 6

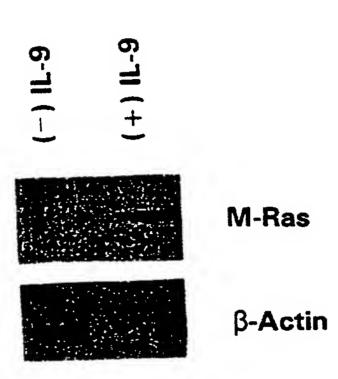


Figure 7

	Cons	stitutively Activ	Dominant Negative					
M-Ras	M-Ras-1	M-Ras-2	M-Ras-3	M-Ras-4	M-Ras-5			
	G22-V22	Q71-K71	G22-K22	` S27→N27	C205-S205			
	GGT→GTT	CAG-AAA	GGT→AAG	AGT-AAT	TGT→TCT			

Figure 8

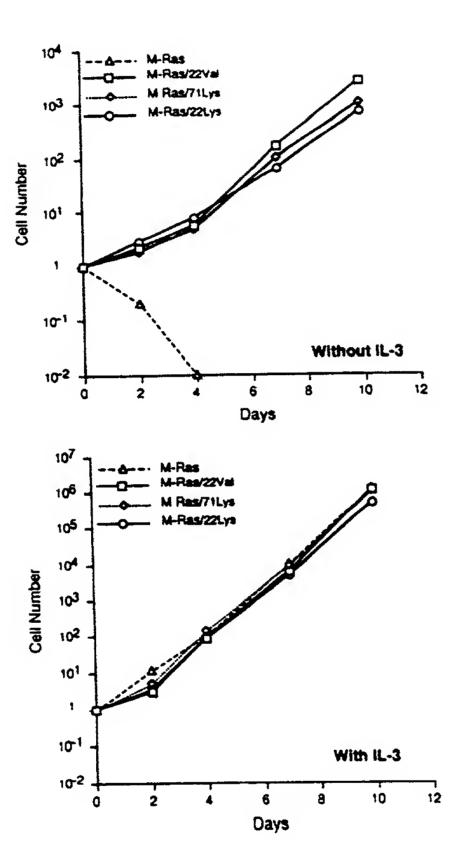


Figure 9

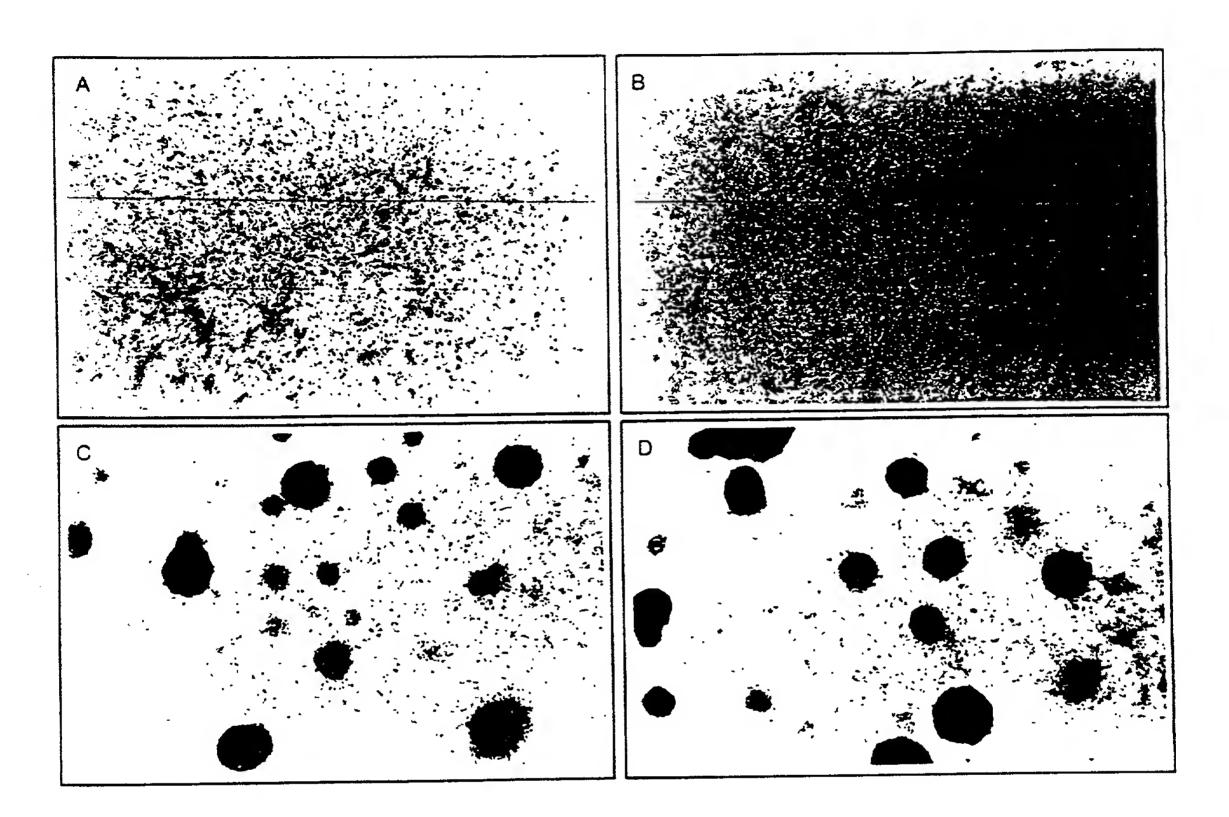


Figure 10

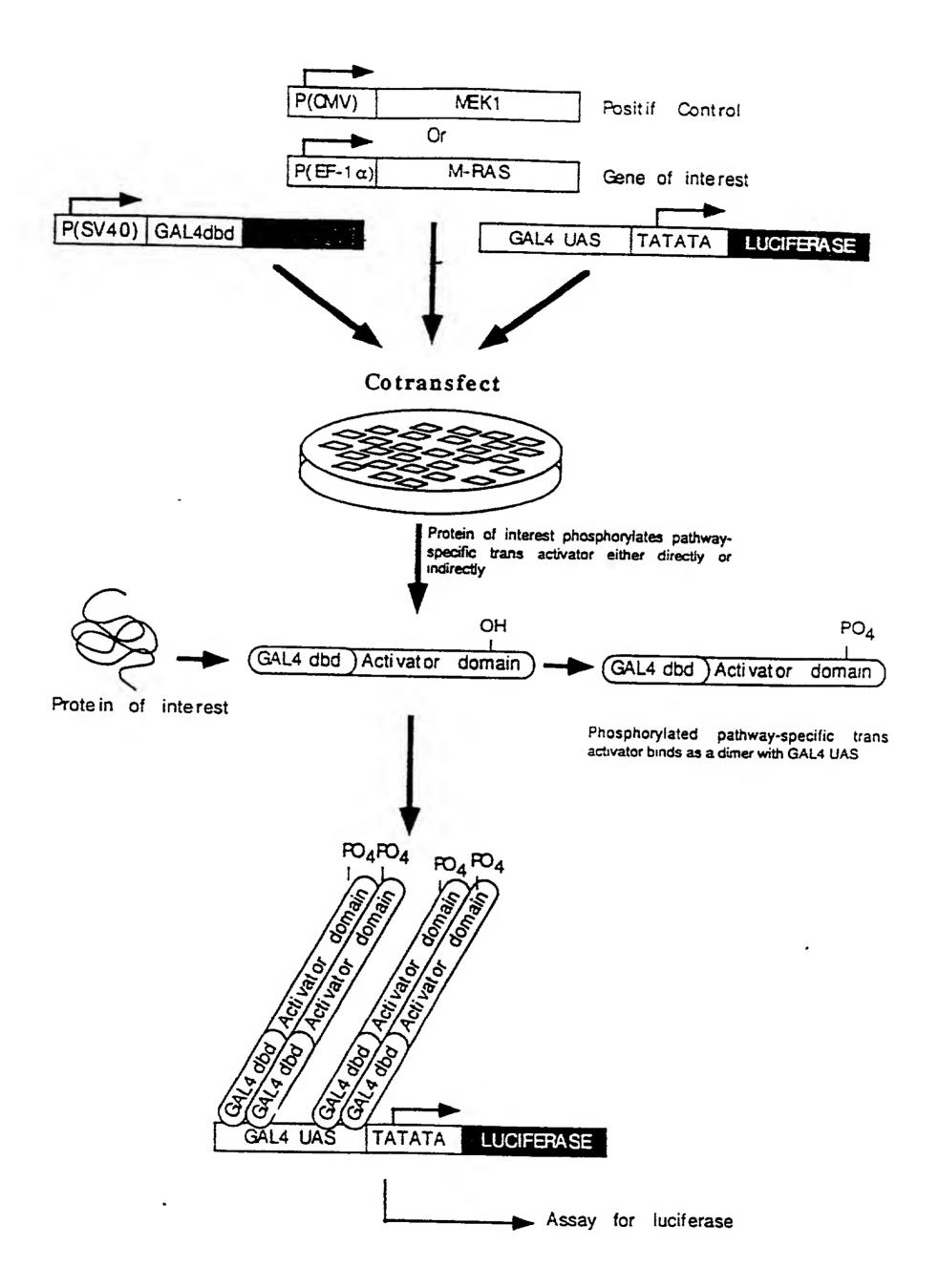


Figure 11

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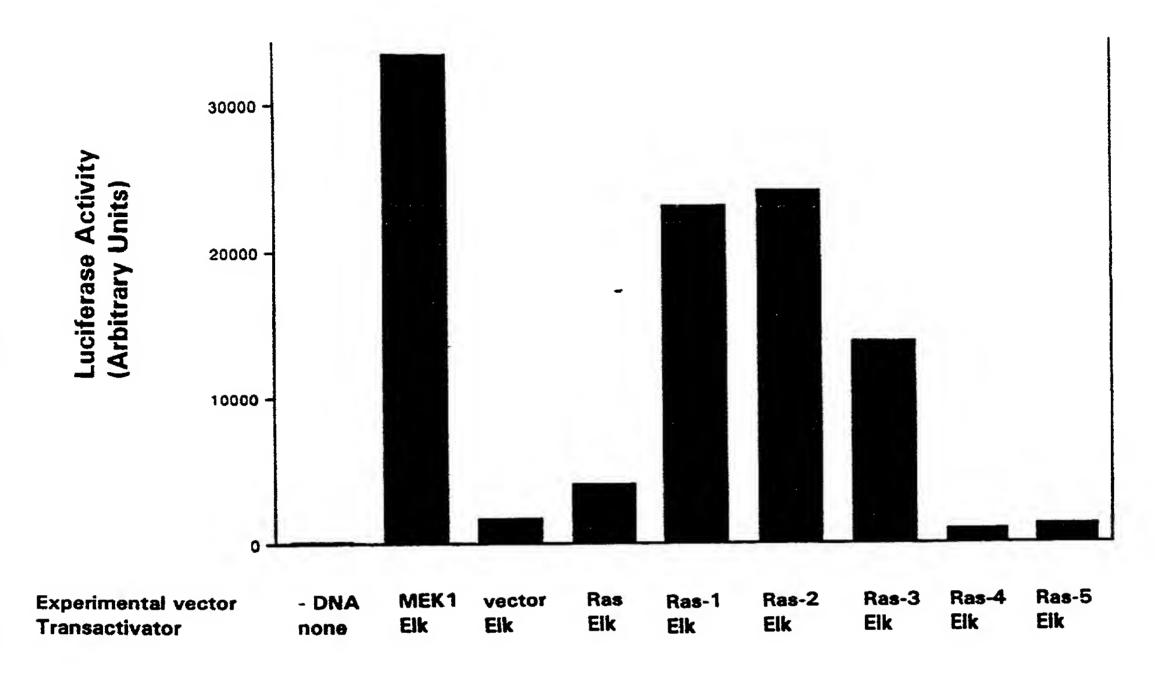


Figure 12

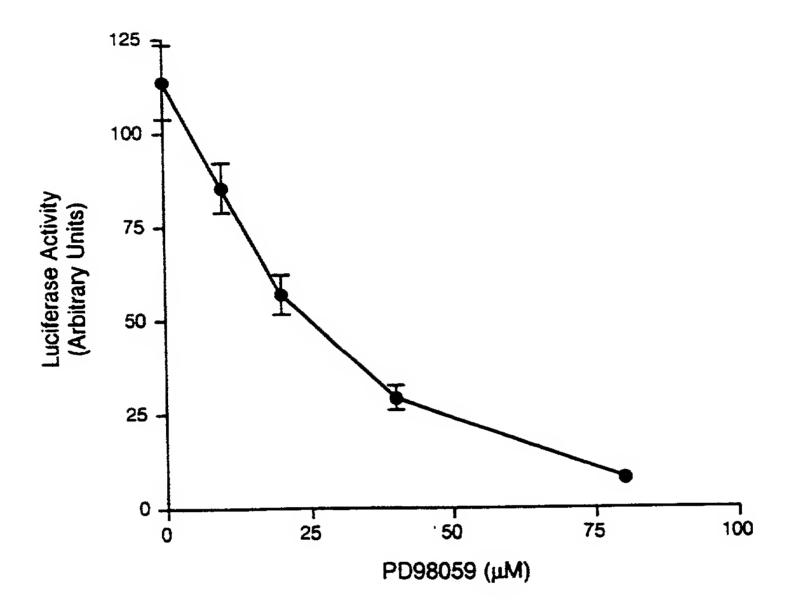


Figure 13

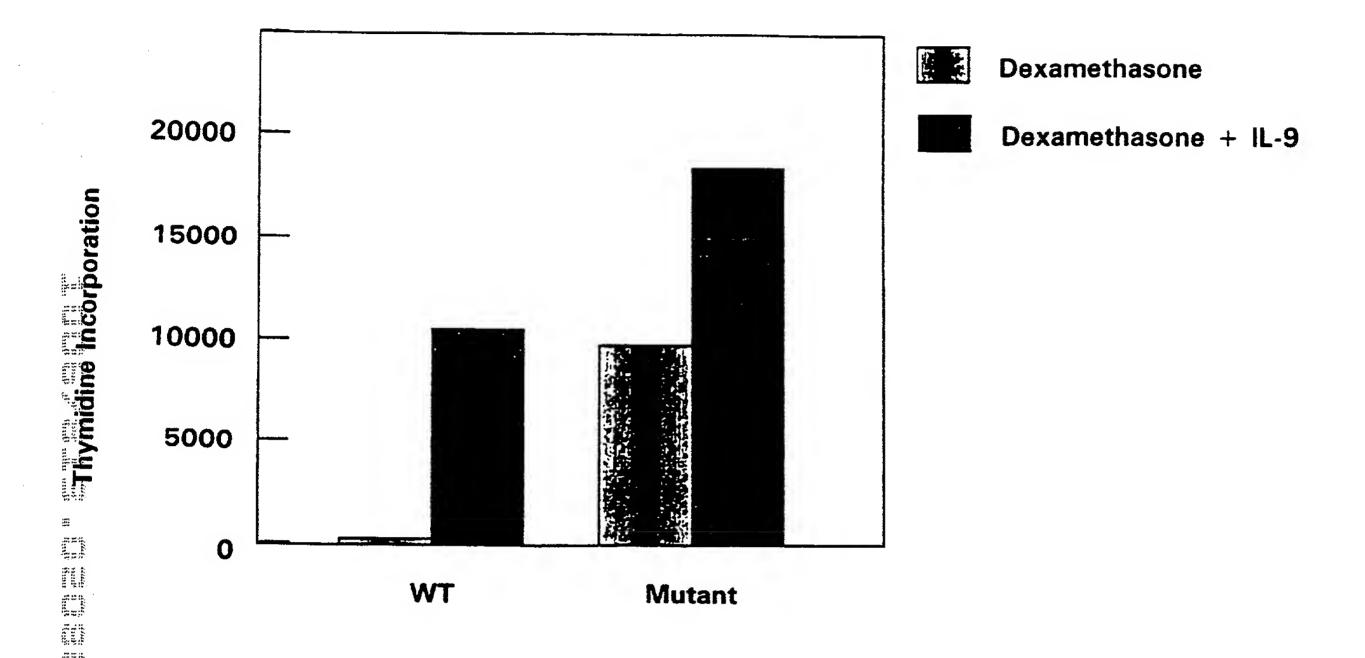


Figure 14

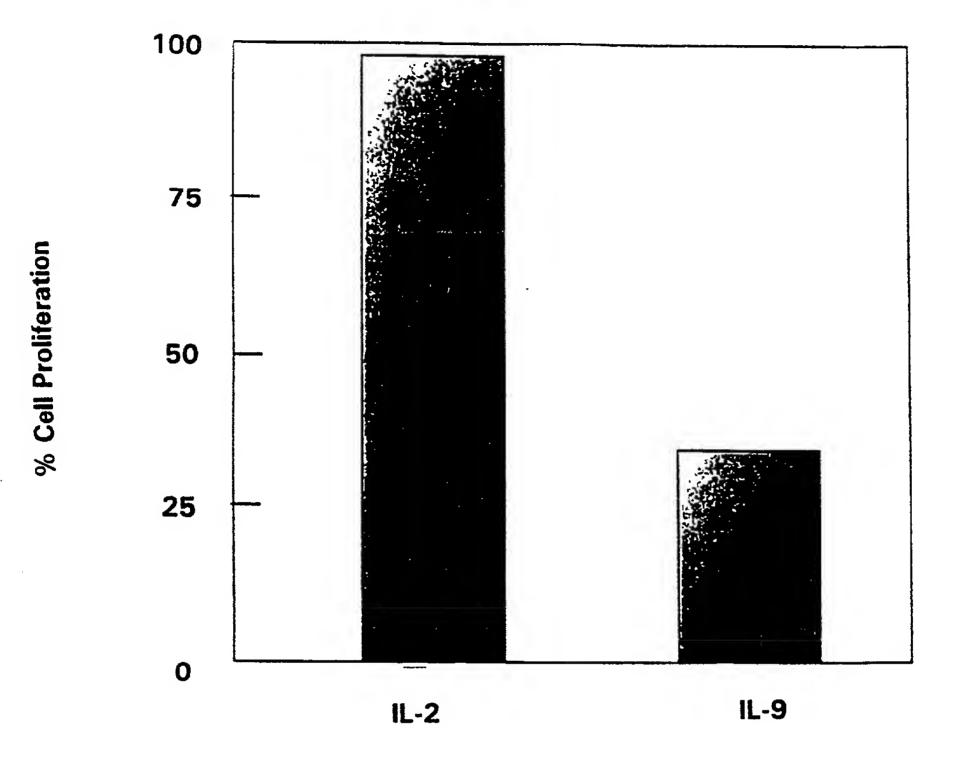


Figure 15

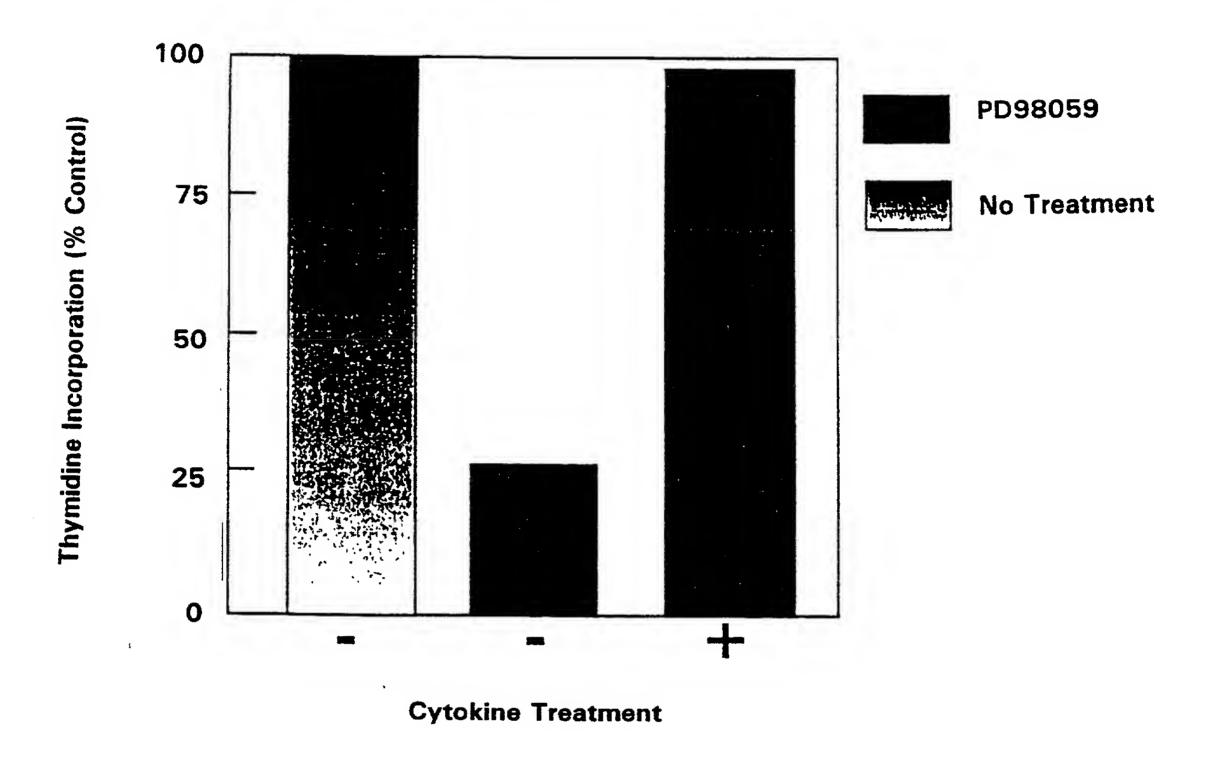


Figure 16

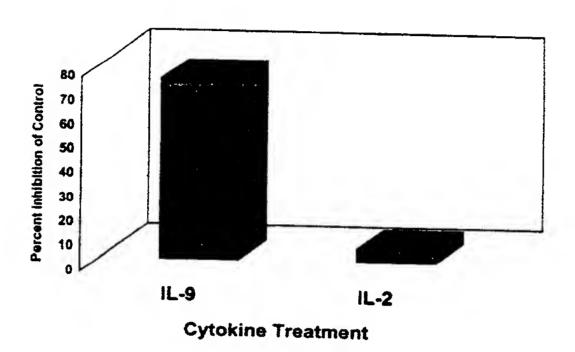


Figure 17

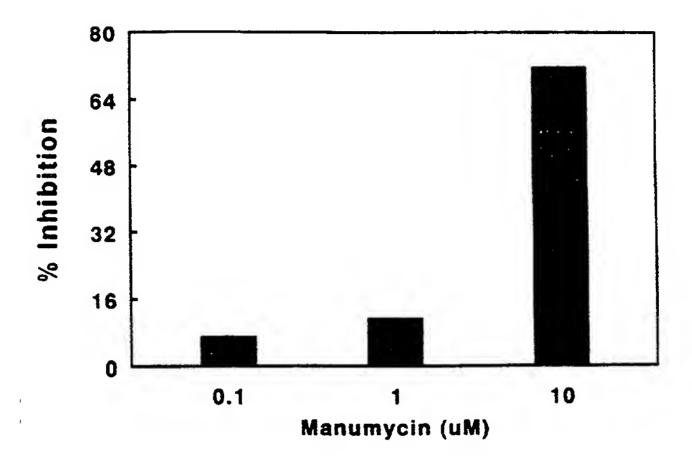


Figure 18

Effect of Lovastatin on the Proliferation of TS2 Cells 120 100 80 80 40 20 0.001 0.01 0.1 1 2.5 5 DMSO

Figure 19

Lovastatin (uM)

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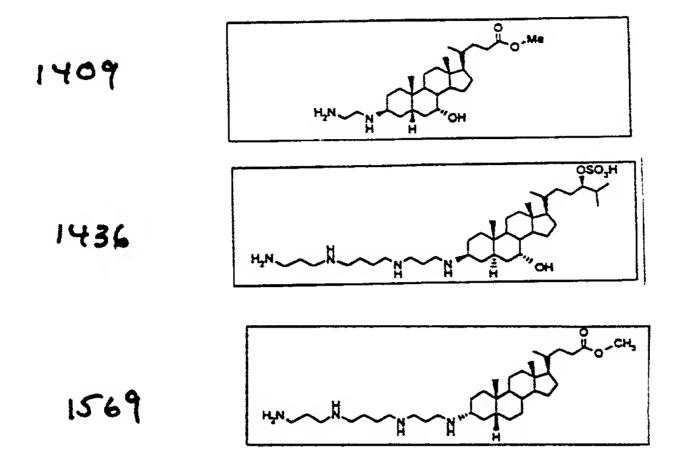


Figure 20

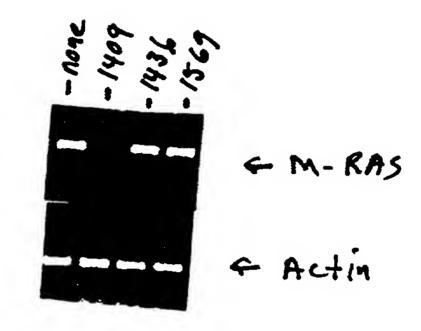


Figure 21

Lovastatin Inhibition of M-RAS Prenylation...

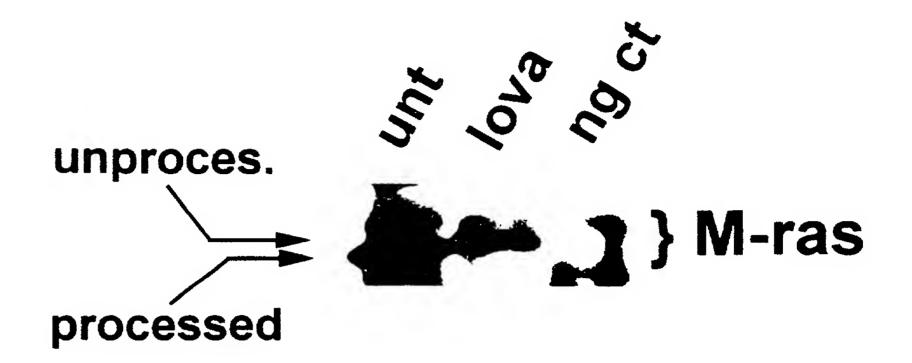


Figure 22